

(No Model.)

J. P. RECKER.
FLEXIBLE JOINTED SHUTTER.

No. 277,608.

Patented May 15, 1883.

Fig. 1.

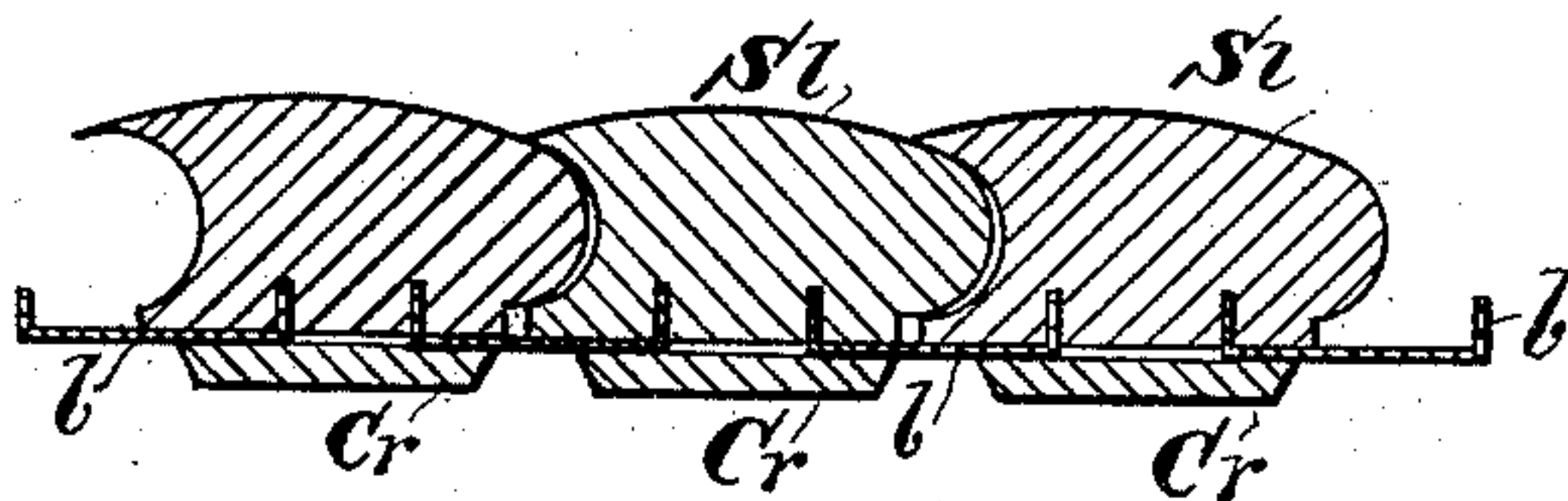
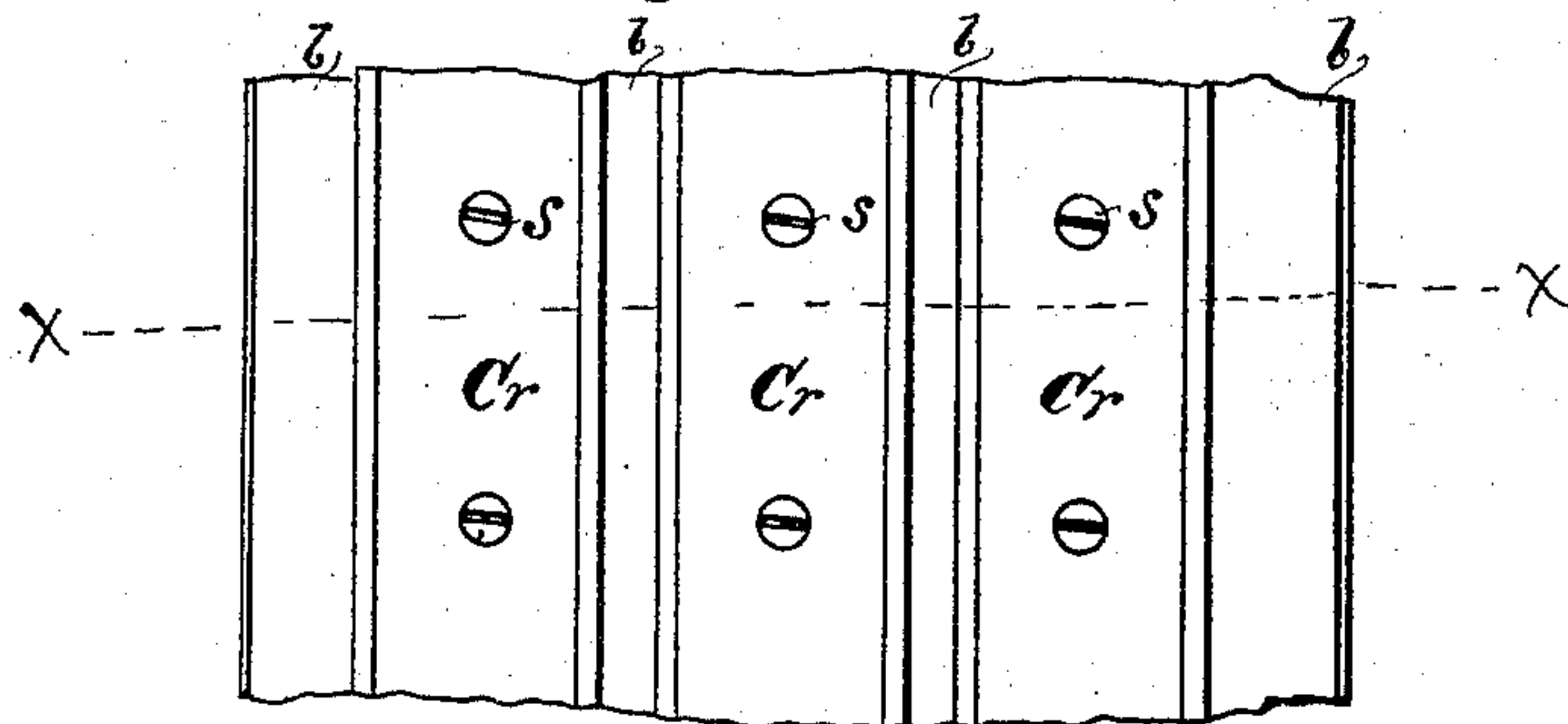


Fig. 2.



WITNESSES.

Jacob W. Loepers
Geo. Moser

INVENTOR.

John P. Recker
By C. F. Jacobs
Atty.

UNITED STATES PATENT OFFICE.

JOHN P. RECKER, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO THE INDIANAPOLIS CABINET COMPANY OF INDIANA.

FLEXIBLE JOINTED SHUTTER.

SPECIFICATION forming part of Letters Patent No. 277,608, dated May 15, 1883.

Application filed March 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. RECKER, of Indianapolis, Indiana, have invented a new and useful Improvement in Flexible Jointed Shutters, of which the following is a description, reference being made to the accompanying drawings, in the several figures of which like letters indicate like parts.

My invention relates to the construction of 10 tongued and grooved shutter-sections, and their connection by means of strips of thin metal, in place of a continuous sheet of cloth or other material.

In the drawings, Figure 1 is a cross-section of 15 my device on the line *xx*, Fig. 2. Fig. 2 is a bottom view of the same.

The shutter is composed of sectional pieces or slats *S'*, concave on one edge and convex on the other, and fitted to overlap, so that the 20 convexity of one enters the concavity of the one behind it. These slats are connected to each other by means of a strip of elastic metal, *b*, which has its edges turned down at right angles and enters into openings on the under 25 side of the slats, as shown in Fig. 1, each strip of metal connecting two of the slats together. The strips of metal are held in place by cleats *C r*, which are placed over the strips so as to hold and cover one side of each of two strips, 30 and the cleats are then screwed firmly to the slats *S l* by screws *s*, as shown in Fig. 2. This method of construction makes a continuous flexible shutter solid and readily adjustable for any purpose desired. Heretofore sectional 35 shutters have been made by connecting the slats with a continuous piece of cloth; but this

is objectionable for many reasons, and I have therefore devised my metal strips for such purpose.

What I claim, and desire to secure by Letters Patent, is the following:

1. In a jointed shutter, a series of slats adapted to hinge upon each other, and connected by strips of elastic metal, whose opposite edges are connected to separate slats, substantially as described. 45

2. In a jointed shutter, a series of slats adapted to hinge one upon another, each pair of slats connected together by a separate strip of elastic metal, the strips held in place by 50 means of cleats secured to the slat, substantially as described.

3. In a jointed shutter, a series of slats adapted to hinge one upon another, each slat connected to the one before it by a strip of 55 metal, and to the one behind it by another strip of metal, substantially as described.

4. In a jointed shutter, a series of slats connected together by metal strips, each slat connected to the one before it by means of one 60 strip, and to the one behind it by another strip, substantially as described.

5. In a jointed shutter, the combination of the slats *S l*, the metal strips *b*, and the cleats 65 *C r*, substantially as described.

In witness whereof I have hereunto set my hand this 14th of March, 1883.

JOHN P. RECKER.

Witnesses:

C. P. JACOBS,
F. A. COFFIN.